

ABSTRACT OF THE DISCLOSURE

When the number of transmit bits and gain allocated to each carrier of a multicarrier transmission system are decided, the S/N ratio of each carrier is found and a number of transmit bits is allocated to each of the carriers based upon the respective S/N ratios thereof. Next, the gains of carriers for which the number of allocated bits is equal to a maximum limit number are decreased and the gains of prescribed carriers other than these carriers are increased. Control is performed in such a manner that the sum total of gain increases and sum total of gain decreases will be equal, as a result of which the total of number of transmit bits allocated to the carriers is increased.